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(11) **EP 1 296 022 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.12.2004 Bulletin 2004/50

(51) Int Cl.7: **F01D 5/30**

(43) Date of publication A2:
26.03.2003 Bulletin 2003/13

(21) Application number: **02256480.1**

(22) Date of filing: **18.09.2002**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR**
Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **21.09.2001 IT MI20011970**

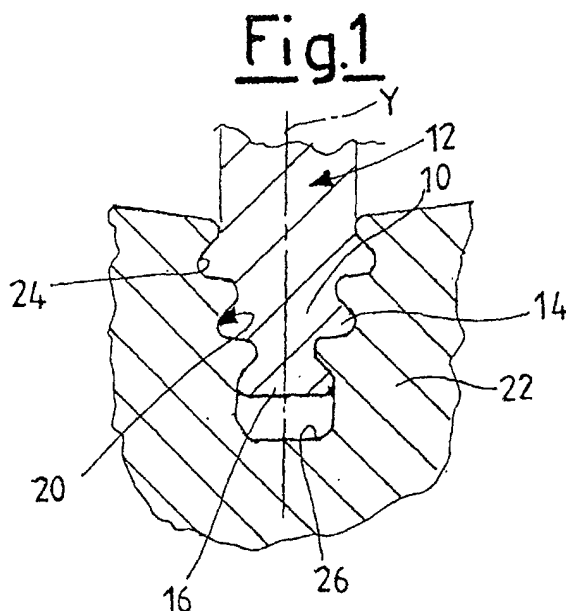
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(54) **Blade root and rotor disc groove contour**

(57) An improved connection of blades (12) on a rotor disc (22) of a gas turbine, of the type in which a root (10) of each blade (12) is inserted in a seat (20) of the disc (22) which is complementary to the blade, wherein the root (10) is in the shape of an overturned isosceles triangle, with the two sides which converge at the base each having a grooved profile such as to form a series of teeth (14) and with a lower end (16) of the root (10) which is formed by the joined connection of the two lower teeth (14) of the two sides of the root (10), the teeth (14) of the root (10) corresponding to grooves (24) in the seat (20) and the lower end (16) of the root (10) corresponding to an end groove (26) in the seat (20). This series of grooves (24) extends along a line which is inclined relative to the axis of the seat (20) by an angle β_1 of between 17° and 23° , and the grooves (24) have straight sides with inclinations relative to the axis of the seat (20) of angles α_1 and α_2 , wherein α_1 is between 42° and 48° whereas α_2 is between 94° and 100° .



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EUROPEAN SEARCH REPORT

Application Number
EP 02 25 6480

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Place of search		Date of completion of the search	Examiner
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CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03 82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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